No. 9100141

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Northrup King Co.

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT [illegible]IETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. [illegible] UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS [illegible] OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS [illegible]Y THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Coker 9803'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington, D.C. *this* 29th *day of* October *in the year of our Lord one thousand nine hundred and* ninety-three.

*Attest:*

Kenneth R. Evans

*Commissioner*
*Plant Variety Protection Office*
*Agricultural Marketing Service*

*Secretary of Agriculture*

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

*(Instructions on reverse)*

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
Northrup King Company

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.
C 86-33

3. VARIETY NAME
Coker 9803

4. ADDRESS *(street and no. or R.F.D. no., city, state, and ZIP)*
P. O. Box 959
Minneapolis, MN 55440

5. PHONE *(Include area code)*
612-593-7333

**FOR OFFICIAL USE ONLY**

PVPO NUMBER
9100141

FILING
Date: Mar. 18, 1991
Time: ☐ A.M. ☐ P.M.

FEES RECEIVED
Filing and Examination Fee: $ 2150.-
Date: Mar. 18, 1991
Certificate Fee: $ 250.-
Date: Oct. 6, 1993

6. GENUS AND SPECIES NAME
Triticum aestivum

7. FAMILY NAME *(Botanical)*
Gramineae

8. CROP KIND NAME *(Common Name)*
Soft red winter wheat

9. DATE OF DETERMINATION
1985, May
JMS 10/25/93

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION *(Corporation, partnership, association, etc.)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

12. DATE OF INCORPORATION
1976

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
~~Warren D. Springer~~ ~~ROBERT W. ROMIG~~ John Thorne
Northrup King Co.
~~P. O. Box 959~~ P.O. Box 949
Minneapolis, MN 55440 WASHINGTON IOWA 52353
PHONE *(Include area code)*: ~~612-593-7285~~ 9305 319 653 2181
MAA 2 Nov 1993

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow INSTRUCTIONS on reverse)*
- a. ☒ Exhibit A, Origin and Breeding History of the Variety.
- b. ☒ Exhibit B, Novelty Statement.
- c. ☒ Exhibit C, Objective Description of Variety.
- d. ☐ Exhibit D, Additional Description of Variety.
- e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.
- f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____.
- g. ☒ Filing and Examination Fee ($2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See section 83(a) of the Plant Variety Protection Act.)*
☒ YES *(If "YES," answer items 16 and 17 below)* ☐ NO *(If "NO," skip to item 18 below)*

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
☐ YES *(If "YES," through* ☐ Plant Variety Protection Act ☐ Patent Act. Give date. _____.)
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☒ YES (If "YES," give names of countries and dates) U.S.A., fall of 1990
☐ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

| SIGNATURE OF APPLICANT *(Owner(s))* | CAPACITY OR TITLE | DATE |
|---|---|---|
| Warren D. Springer | Manager, Regulatory Affairs | 11 March 1991 |
| SIGNATURE OF APPLICANT *(Owner(s))* | CAPACITY OR TITLE | DATE |
| | | |

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**EXHIBIT A**

**Origin and Breeding History**
Amended December 1992

Coker 9803 was derived from a cross of McNair 1003/Coker 916 made in the spring of 1980 at the Coker research facility in Hartsville, SC. Details of its development follows:

| SEASON | GENERATION | ACTIVITY |
|---|---|---|
| Spring 1980 | Cross made | Cross identified as x551 |
| Summer 1980 | F1 | F1 grown in greenhouse |
| 1980-81 | F2 | Seed from F2 bulked |
| 1981-82 | F3 | Heads from spaced plants selected (resistant to LR and PM) |
| 1982-83 | F4 | Heads from Head row #20753 selected (resistant to LR & PM) |
| 1983-84 | F5 | Head row #27664 selected (resistant to LR, PM, and uniform) |
| 1984-85 | F6 | Line #85C-90 tested (Yield, disease resistance, uniformity) |
| 1985-86 | | Advanced testing as C 86-33 |
| 1986-87 | | Continued in advanced tests |
| 1987-88 | | Elite testing and increase at Bay, AR |
| 1988-89 | | Elite tests and small increase by Production Dept |
| 1989-90 | | Elite tests and large increase by Production Dept |
| 1990-91 | | Seed produced for certification by TGN Growers |

**LR-Leaf rust**
**PM-Powdery mildew**

**Purpose of testing is to evaluate yield, agronomic traits, and disease reactions; uniformity and consistency are critical for performance of entry over locations and years.**

**Coker 9803 has been sexually reproduced for 8 generations since first selected from head row; it has exhibited uniformity and stability through each generation.**

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**EXHIBIT B**

**Novelty Statement**

Amended December 1992

Coker 9803 most closely resembles Coker 916. The two varieties can be distinguished by four traits. Coker 9803 has a white coleoptile and a light brown phenol reaction whereas Coker 916 has a purple coleoptile and black brown phenol reaction. Coker 9803 exhibits resistance to field races of leaf rust and stem rust present in the Mid-South during the period 1986 through 1992 whereas Coker 916 is susceptible to those diseases.

| VARIETY | COLEOPTILE COLOR | PHENOL REACTION | LEAF RUST | STEM RUST |
|---|---|---|---|---|
| Coker 9803 | white | light brown | Resistant | Resistant |
| Coker 916 | purple | black brown | Susceptible | Susceptible |

FORM APPROVED: OMB NO. 0581-0055

EXHIBIT C
(Wheat)

U. S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
BELTSVILLE, MARYLAND 20785

# OBJECTIVE DESCRIPTION OF VARIETY
## WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)

Northrup King Co.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)

P.O. Box 959
Minneapolis, MN 55440

FOR OFFICIAL USE ONLY

PVPO NUMBER: 9100141

VARIETY NAME OR TEMPORARY DESIGNATION: Coker 9803

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

**1. KIND:**

[1] 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

**2. TYPE:**

[2] 1 = SPRING 2 = WINTER 3 = OTHER (*Specify*) _____ [1] 1 = SOFT 2 = HARD 3 = OTHER (*Specify*) _____

[2] 1 = WHITE 2 = RED 3 = OTHER (*Specify*) _____

**3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:**

[1][8][6] FIRST FLOWERING [1][9][1] LAST FLOWERING

**4. MATURITY (*50% Flowering*):**

[0][6] NO. OF DAYS *EARLIER* THAN ..... [7] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7=Caldwell

[0][0] NO. OF DAYS *LATER* THAN ..... [8] 4 = LEMHI 5 = NUGAINES 6 = LEEDS 8=Coker 916

**5. PLANT HEIGHT (*From soil level to top of head*):**

[0][9][0] CM. HIGH

[0][0] CM. TALLER THAN ..... [8]

[0][5] CM. SHORTER THAN ..... [7] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7=Caldwell 4 = LEMHI 5 = NUGAINES 6 = LEEDS 8=Coker 916

**6. PLANT COLOR AT BOOTING (*See reverse*):**

[3] 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

**7. ANTHER COLOR:**

[1] 1 = YELLOW 2 = PURPLE

**8. STEM:**

[2] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Waxy bloom: 1 = ABSENT 2 = PRESENT

[2] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

[3] Internodes: 1 = HOLLOW 2 = SOLID 3=basal-solid upper-hollow

[0][4] NO. OF NODES (*Originating from node above ground*)

[2][0] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

**9. AURICLES:**

[2] Anthocyanin: 1 = ABSENT 2 = PRESENT

[2] Hairiness: 1 = ABSENT 2 = PRESENT

**10. LEAF:**

[1] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER (*Specify*): _____

[1] Flag leaf: 1 = NOT TWISTED 2 = TWISTED

[1] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

[2] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

[1][2] MM. LEAF WIDTH (*First leaf below flag leaf*)

[2][2] CM. LEAF LENGTH (*First leaf below flag leaf*):

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**11. HEAD:**

[3] Density: 1 = LAX 2 = DENSE 3=Medium

[2] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) _____

[2] Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

[7] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): light tan

[0][8] CM. LENGTH

[1][0] MM. WIDTH

**12. GLUMES AT MATURITY:**

[2] Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)

[2] Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

[2] Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

[2] Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

**13. COLEOPTILE COLOR:**

[1] 1 = WHITE 2 = RED 3 = PURPLE

**14. SEEDLING ANTHOCYANIN:**

[1] 1 = ABSENT 2 = PRESENT

**15. JUVENILE PLANT GROWTH HABIT:**

[2] 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

**16. SEED:**

[1] Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

[1] Cheek: 1 = ROUNDED 2 = ANGULAR

[2] Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

[1] Brush: 1 = NOT COLLARED 2 = COLLARED

[3] Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

[5] Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) light brown

[0][6] MM. LENGTH

[0][3] MM. WIDTH

[3][7] GM. PER 1000 SEEDS

**17. SEED CREASE:**

[2] Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

[2] Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'

**18. DISEASE:** (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Moderately resistant

[3] STEM RUST (Races) _____

[2] LEAF RUST (Races) _____

[1] STRIPE RUST (Races) _____

[0] LOOSE SMUT

[2] POWDERY MILDEW

[0] BUNT

[3] OTHER (Specify) Soil borne-virus

**19. INSECT:** (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] SAWFLY

[0] APHID (Bydv.)

[0] GREEN BUG

[0] CEREAL LEAF BEETLE

[ ] OTHER (Specify) _____

HESSIAN FLY RACES: [ ] GP [ ] A [ ] B [ ] C [ ] D [2] E variable [ ] F [ ] G

**20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:**

| CHARACTER | NAME OF VARIETY | CHARACTER | NAME OF VARIETY |
|---|---|---|---|
| Plant tillering | Coker 916 | Seed size | Coker 9733 |
| Leaf size | Coker 916 | Seed shape | Coker 983 |
| Leaf color | Coker 916 | Coleoptile elongation | Coker 9733 |
| Leaf carriage | Coker 916 | Seedling pigmentation | Coker 983 |

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

**LEAF COLOR:** Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

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## Milling and Baking Quality, Coker 9803

| PARAMETER | TEST 1989 UEN | 1990 UEN | P.Finney's 1991 LIST |
|---|---|---|---|
| **MILLING** | | | |
| Test wt lb/bu | 61.2 | 62.5 | 60.6 |
| Break flour yield | 34.1 | 30.6 | 34.3 |
| St.gr. flour yield | 76.5 | 76.2 | 76.4 |
| Friability | 29.1 | 28.9 | 28.7 |
| E.S.I. | 10.7 | 10.5 | 10.7 |
| Flour Ash | 0.426 | 0.427 | 0.42 |
| Millability | 103.9 | 102.6 | -- |
| Score | 98.0 | 93.0 | -- |
| **BAKING** | | | |
| Flour protein | 9.55 | 10.43 | -- |
| Micro AWRC | 52.4 | 53.9 | 52.4 |
| Cookie diameter | 17.28 | 17.28 | -- |
| Top grain | 1 | 6 | -- |
| Score | 96.9 | 75.6 | -- |
| Standard | Caldwell | Caldwell | -- |

UEN: Uniform Eastern Soft Red Winter Wheat Nursery

P.Finney's List: List of soft red wheat varieties and their milling and baking characteristics as determined by the USDA Soft Wheat Quality Lab.

EXHIBIT E

Statement of the Basis of Applicant's Ownership

Wheat variety Coker 9803 was developed by the Northrup King Co. cereals breeding staff from germplasm sources cited in Exhibit A of this application. Northrup King Co. believes that the variety is novel as defined in the Plant Variety Protection Act and, therefore, that Northrup King Co. is the sole owner of the variety.